



Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-16-13 Date: 19-07-18
Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore
Address : T-Dasarahalli Sub Division, BBMP, Bangalore
Project Name : Construction and repairs to culverts in Dasarahalli in ward no. 15
Agency : Sri. D.V. Kumar, No. 657/1, 5th Main, Lava Kusha Nagara, Laggere, Bengaluru-58
Customer's Reference : EE/DD/WD/272/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-07-18
Sample ID No : 2018-07-16-13 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11) 1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 17-07-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.3	—
2	Finess by Air permeability method (m ² /kg,Min)	285.7	225m ² /kg, Min
3	Density (gm/cc)	3.01	—
4	Standard Consistency (%)	0.285	Not specified
5	Initial Setting time (minutes)	135 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL PRO.

R. K. R.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager



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****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Date: 14-08-18

Lab ID : CP-2018-07-16-13

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction and repairs to culverts in Dasarahalli in ward no. 15

Agency : Sri. D.V. Kumar, No. 657/1, 5th Main, Lava Kusha Nagara, Laggere, Bengaluru-58

Customer's Reference : EE/DD/WO/272/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-18

Sample ID No : 2018-07-16-13 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 17-07-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SLNo.	Physical properties	Results (N/mm ²)	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm2	Not less than 27 N/mm ²
2	7 Days	39.5N/mm2	Not less than 37 N/mm ²
3	28 Days	57.5N/mm2	Not less than 53 N/mm ²

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 ****End of Report****

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KARTHIK RECHAN
 Authorized Signatory
 Quality Manager





TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID : CP-2018-07-16-13
Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address : T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Construction and repairs to culverts in Dasarahalli in ward no. 15
Agency : Sri. D.V. Kumar, No. 657/1, 5th Main, Lava Kusha Nagara, Laggere, Bengaluru-58
Customer's Reference : EE/DD/WO/272/17-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 16-07-18
Sample ID No : 2018-07-16-13 /02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 16-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken

: 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	281	281	1.9	98.1	90-100
3	20 mm	7158	7439	49.6	50.4	30-70
4	10 mm	4344	11783	78.6	21.4	10-35
5	4.75 mm	2988	14771	98.5	1.5	0-5
6	Pan	229	15000	100.0	0	---

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[Signature]
S. K. Srinivasan
Manager



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TEST REPORT ON COARSE AGGREGATES

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Lab ID : CP-2018-07-16-13
Sample ID No : 2018-07-16-13 /02(a)

Date: 19-07-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.63	-
4	Bulk Density(Loose) (Kg/l)	1.43	-
5	Bulk Density(Compacted) (Kg/l)	1.51	-
6	Water Absorption(%)	0.22	-

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R KARTHIK RECHAN

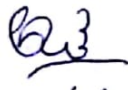
Authorized Signatory

Quality Manager



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****End of Report****




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ಪ್ರಮಾಣೀಕೃತ ಉಪ-ಲೇಖ
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